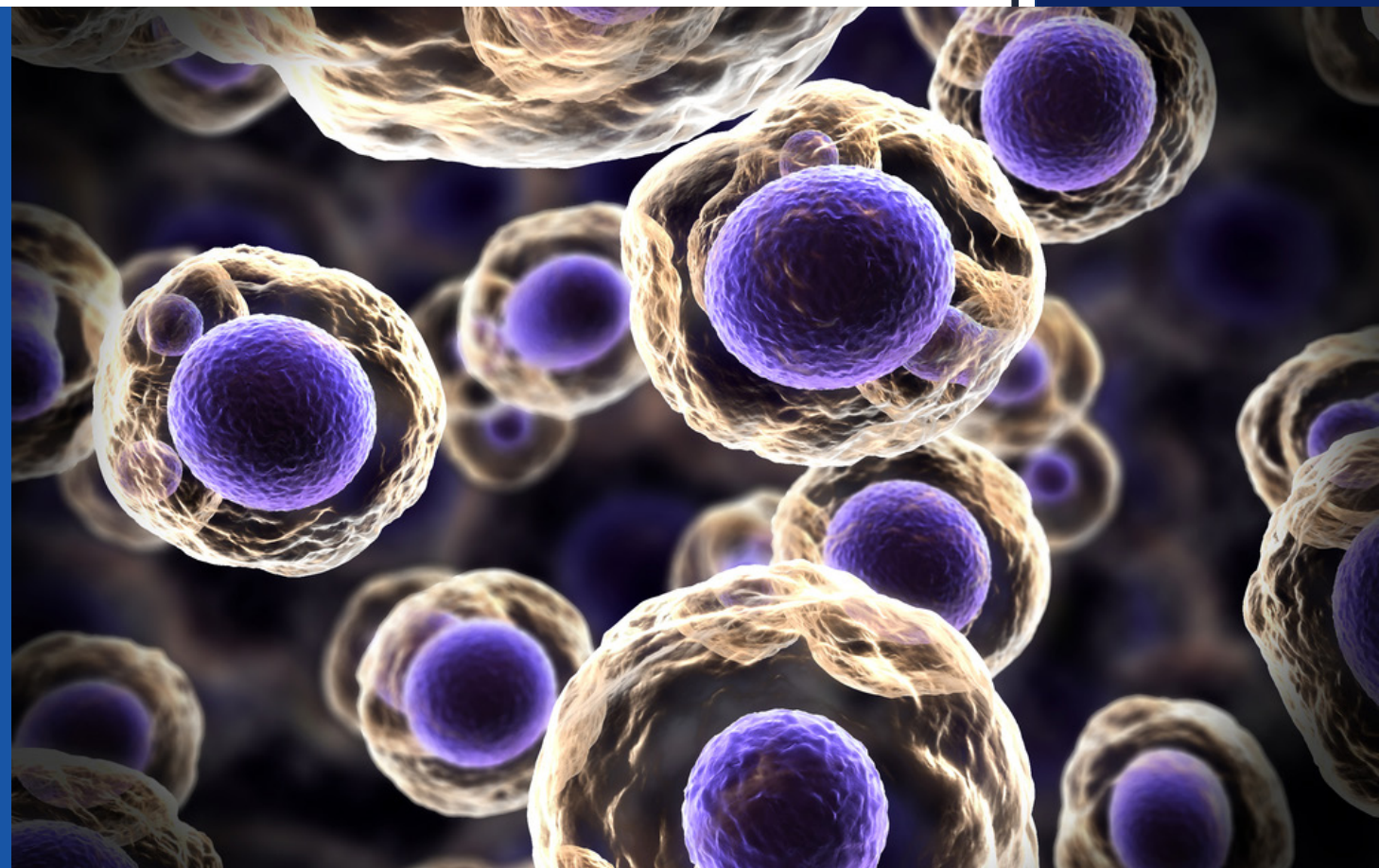


Scientific Program

4th International Conference and Exhibition on **Cell & Gene Therapy**

August 10-12, 2015 London, UK

325th OMICS International Conference



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Keynote Forum

	Introduction
09:30-09:55	James Koropatnick Lawson Health Research Institute and Western University, Canada
09:55-10:20	Anelia Atanassova BioGlobaX Inc., Canada
10:20-10:45	Noriyuki Kasahara University of Miami, USA

Coffee break 10:45-11:00

Track 1: Cell & Gene Therapy- Potential Applications

Track 2: Plant Stem Cell Rejuvenation

Track 3: Plant Stem Cells: Human Therapeutics

Session Introduction

Session Chair: Ajan Reginald, Cell Therapy Limited, UK

Session Co-Chair: Andrei Laikhter, Chemgenes Corporation, USA

11:00-11:25 **Advanced RNA synthesis as a key tool in RNA biology research**

Andrei Laikhter, Chemgenes Corporation, USA

11:25-11:50 **Myoblast-derived neuronal cells form glutamatergic neurons in the mouse cerebellum**

Sadhan Majumder, M. D. Anderson Cancer Center, USA

11:50-12:15 **Genetic markers of coronary artery disease risk**

Galya Naydenova Atanasova, Medical University Pleven, Bulgaria

12:15-12:40 **Enhanced delivery of DNA-based vaccines and immunotherapeutics through next-generation electroporation devices**

Stephanie Ramos, Inovio Pharmaceuticals Inc., USA

Lunch break 12:40-1:30

13:25-13:50 **Molecular detection of tomato yellow leaf curl virus in tomato crops in Kuwait**

Ebtesam M. Al-Ali, Kuwait Institute for Scientific Research, Kuwait

Track 4: Stem Cell Therapies

Track 10: Bioengineering Therapeutics

Track 11: Clinical Trials and Research in Cell & Gene Therapies

Track 12: Regulatory & Ethical Issues of Therapies

Session Introduction

Session Chair: Vasiliki Kalodimou, IASO Maternity Hospital, Greece

Session Co-Chair: Geeta Shroff, Nutech Medicworld, India

13:50-14:15 **Improved epilepsy and speech outcomes with human embryonic stem cell therapy in children with cerebral palsy**

Geeta Shroff, Nutech Medicworld, India

14:15-14:40 **The extracellular matrix in stem cell commitment: Biphasic role of chondroitin sulfate in cardiac differentiation of embryonic stem cells through inhibition of Wnt/beta-catenin signaling**

Michael Kluppel, Northwestern University, USA

14:40-15:05 **Comparison between healthy donor-derived bone marrow mesenchymal stem cells BM-MSCS and human dermal fibroblasts: Impact on clinical applications of HMSCS**

Mohammed Al Bagami, Centre Hospitalier Universitaire, France

15:05-15:30 **Adipose-derived mesenchymal stem cells in the regeneration of vocal folds: A study on a chronic vocal fold scar**

Angelou Valerie, Phoniatics and Applied Otorhinolaryngology Center, Greece

15:30-15:55 **Transition from the bench to the bedside: Considerations for ensuring a safe and successful entry into the clinic for cell based medicinal products**

Natalie Thomas, Clinical Network Services, UK

Coffee Break 15:55-16:15

16:15-16:40 **The impact of repeated autologous infusion of haematopoietic stem cells in patients with liver insufficiency**

Eman Medhat Hassan, Cairo University, Egypt

16:40-17:05 **Three dimensional (3D) dynamic culture and metabolomic analysis of hESC**

Iliana Fauzi, Imperial College London, UK

17:05-17:30 **Hematopoietic stem cell-based therapy for HIV disease: 'Berlin' versus 'Essen' patients**

Josef Bodor, Institute of Hematology and Blood Transfusion, Czech Republic

Panel Discussion

Day 2 August 11, 2015

Keynote Forum

10:00-10:25 **Introduction**

Robert Hawkins

The Christie Hospital and University of Manchester, UK

10:25-10:50 **Paul L. Hermonat**

Central Arkansas Veterans Healthcare System, USA

Coffee Break: 10:50-11:05

Track 5: Cellular Therapies

Track 6: Advanced Gene Therapeutics

Track 7: Molecular basis of epigenetics

Session Introduction

Session Chair: Nady Golestaneh, Georgetown University School of Medicine, USA

Session Co-Chair: Ajan Reginald, Cell Therapy Limited, UK

11:05-11:30 **Stem cell therapy and age-related macular degeneration**

Nady Golestaneh, Georgetown University School of Medicine, USA

11:30-11:55 **A double-blind randomized placebo-controlled phase IIb clinical trial to study the efficacy & safety of a Tendocel™, a novel platelet lysate gel in the treatment of lateral epicondylitis (tennis elbow)**

Sabena Sultan, Cell Therapy Limited, UK

11:55-12:20 **Generation of HLA universal platelets for regenerative applications**

Constanca Figueiredo, Hannover Medical School, Germany

12:20-12:45 **Identification and characterisation of cyclic peptide inhibitors of Ras/p110 α and Ras/Raf protein complexes**

Mohamed Ismail, London Research Institute, UK

Lunch break 12:45-13:30

13:30-13:55 **Non-viral gene therapy in musculoskeletal tissue engineering**

Georg A. Feichtinger, University of Leeds, UK

13:55-14:20 **Safe and efficient gene transfer to retinal cells via a novel DOTMA-based niosomal vector**

Noha Attia, Alexandria University, Egypt

14:20-14:45 **Gene therapy by combination with non-viral vector and in vivo electroporation for bone regeneration**

Mariko Kawai, Osaka Dental University, Japan

14:45-15:10 **A bacteria virus that targets and destroys tumors in preclinical models**

Amin Hajitou, Imperial College London, UK

15:10-15:35 **The studies on latent TB infection**

Xueqiong Wu, Institute of Tuberculosis Research, China

Coffee break: 15:35-15:55

15:30-16:30 **Poster Presentations**

CGT-001 **Characterization of human iPS derived cardiomyocytes and application for cardiac toxicity assessment**

Marie-Helene Delmotte, Novartis Institute of Biomedical Research, Switzerland

CGT-002 **Influences of digoxin on cell metastasis in hepatocellular carcinoma**

Wei-Ju Huang, Hsin-Sheng College of Medical Care and Management, Taiwan

CGT-003 **MicroRNA-124 modifies the progression of R6/2 Huntington's disease mice**

Manho Kim, Seoul National University Hospital, Korea

CGT-004 **H3K9 methyltransferase G9a negatively regulates UHRF1 transcription during leukemia cell differentiation**

Sang-Beom Seo, Chung-Ang University, Republic of Korea

CGT-005 **Gene therapy using in vivo electroporation for alveolar bone regeneration**

Mariko Kawai, Osaka Dental University, Japan

CGT-006 **The influence of TIMP-2 gene expression on melanoma cell metastasis**

Emilia Grecka, Maria Sklodowska-Curie Memorial Cancer Centre and Institute of Oncology, Poland

CGT-007 **Immunogenicity and therapeutic effects of Rv1419 DNA vaccine from Mycobacterium tuberculosis**

Yan Liang, Institute of Tuberculosis Research, China

CGT-008 **Carboxyl-functionalized polyurethane nanoparticles exhibit immunosuppressive properties via autophagy activation**

Yen-Jang Huang, National Taiwan University, Taiwan

CGT-009 **The endothelial progenitor cells derived from Wharton's jelly of human umbilical cord elicit protective effects on ischemic acute kidney injury in mice**

Yuh-Lien Chen, National Taiwan University, Taiwan

CGT-010 **Redifferentiation of Expanded Human Islet β Cells by Inhibition of ARX**

Friedman Orr, Tel Aviv University, Israel

CGT-011 **Kallistatin ameliorates influenza virus pathogenesis by inhibition of kallikrein-related peptidase 1-mediated cleavage of viral hemagglutinin**

Chia Hsing, National Cheng Kung University Medical College, Taiwan

Panel Discussion

Day 3 August 12, 2015

Track 8: Cancer Therapies

Track 9: Nano-Therapy

Session Introduction

Session Chair: James Koropatnick, Lawson Health Research Institute and Western University, Canada

Session Co-Chair: Robert Hawkins, Christie Hospital and University of Manchester, UK

10:00-10:25 **A big data analysis platform to unveil gene interactions in cancer**

Benjamin Y. M. Yung, The Hong Kong Polytechnic University, Hong Kong

10:25-10:50 **Targeting low frequency mutations in breast cancer**

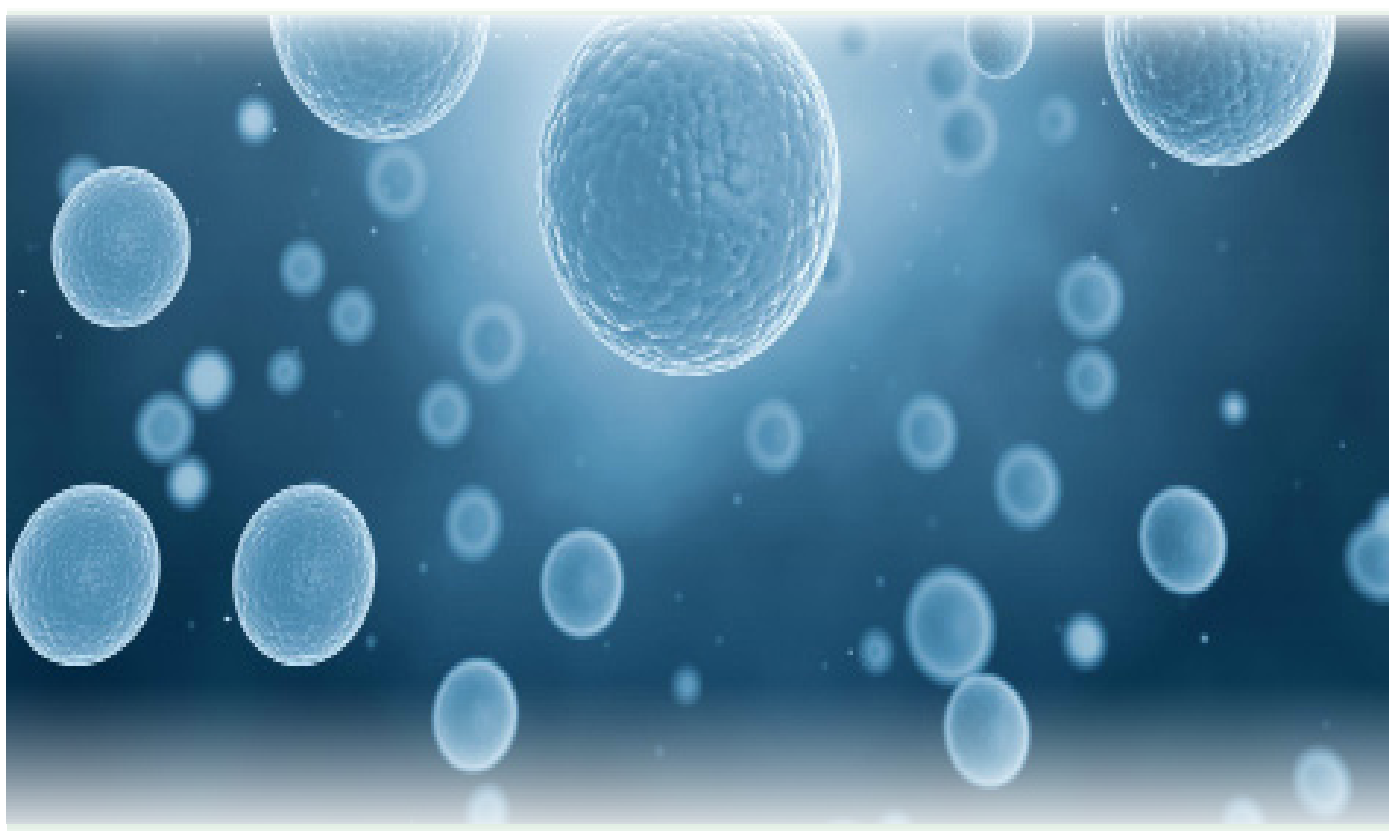
Rachael Natrajan, The Institute of Cancer Research, UK

- 11:10-11:35 **Single cell imaging for exploring the relationship between glucose uptake, survival and metastasis in cancer**
Lawrence W. C. Chan, The Hong Kong Polytechnic University, Hong Kong
- 11:35-12:00 **Cancer stem cell markers in lung cancer: Proofs of concept and some reservations**
Lourdes Cortes Dericks, University of Hamburg, Germany
- 12:00-12:25 **High MACC1 expression in combination with mutated KRAS G13 indicates poor survival of colorectal cancer patients**
Katharina Ilm, Experimental and Clinical Research Center (ECRC-Charite Campus Buch), Germany
- 12:25-12:50 **Clostridium perfringens enterotoxin mediated suicidal gene therapy for pancreatic**
Jessica Pahle, Charite University Medicine, Germany

- 13:35-14:00 **A comparison of the immunosuppressive effects of silymarin with rapamycin and FK506 on the proliferation and apoptosis of T cells in vitro**
Nahid Eskandari, Isfahan University of Medical Sciences, Iran
- 14:00-14:25 **Evaluation of clonal origin of malignant mesothelioma**
Sabahattin Comertpay, Middle East Technical University, Turkey

Panel Discussion

Award Ceremony and Closing Remarks



Bookmark your dates